IN THE CLAIMS

1. (canceled)

2. (previously presented) In a spraying head according to claim10, characterized in that at least some of the nozzles (9,10, 11) of the spraying head are different from each other.

3. (canceled)

4. (previously presented) In a spraying head according to claim 10, characterized in that the nozzles (9,10,11) have been adapted for spraying a liquid mist.

5. (previously presented) In a spraying head according to claim 10, characterized in that the spraying head has been adapted for spraying a high-pressure liquid mist.

6. (previously presented) In a spraying head according to claim 10, characterized in that the nozzles (9,10,11) are arranged in groups, and that at least one channel (18,18', 18") leads to each one of said groups.

7. (previously presented) In a spraying head according to claim 10, characterized in that the spraying head comprises at least one nozzle (9) arranged to spray in a direction substantially against the direction of flow of the intake air.

8. (previously presented) In a spraying head according to claim 10, characterized in that at least some of the nozzles (9,10, 11) are arranged to spray in a direction substantially in the same direction.

9. (previously presented) In a spraying head according to claim 10, characterized in that the spraying head comprises at least one nozzle (10,11) arranged to spray substantially in the direction of flow of the intake air.

10. (previously presented) In a spraying head for the humidification of intake air of a piston engine, said spraying head comprising a body and channels for supplying a spraying medium from an inlet to nozzles, the improvements characterized in that the spraying head (6) is provided with respective channels (18,18',18") to the nozzles (9,10,11), and a shutting/regulating mechanism is provided in connection with the spraying head (6) to allow the supply of the spraying medium to the channels (18,18',18") to be respectively shut off/regulated, the spraying head being used in the humidification of the intake air of the piston engine.

11. (previously presented) In a spraying head according to claim 10 wherein at least one of the nozzles is arranged to spray in a direction differing from a flow of the intake air.

12. (previously presented) In a spraying head according to claim 10 wherein the spraying head extends substantially across a duct for the intake air.

13. (previously presented) In a spraying head according to claim 10 wherein a body of the spraying head has a shape of a wing-like object.

14. (previously presented) In a spraying head according to claim 10 wherein at least part of the spraying head extends inside an intake duct for the intake air.